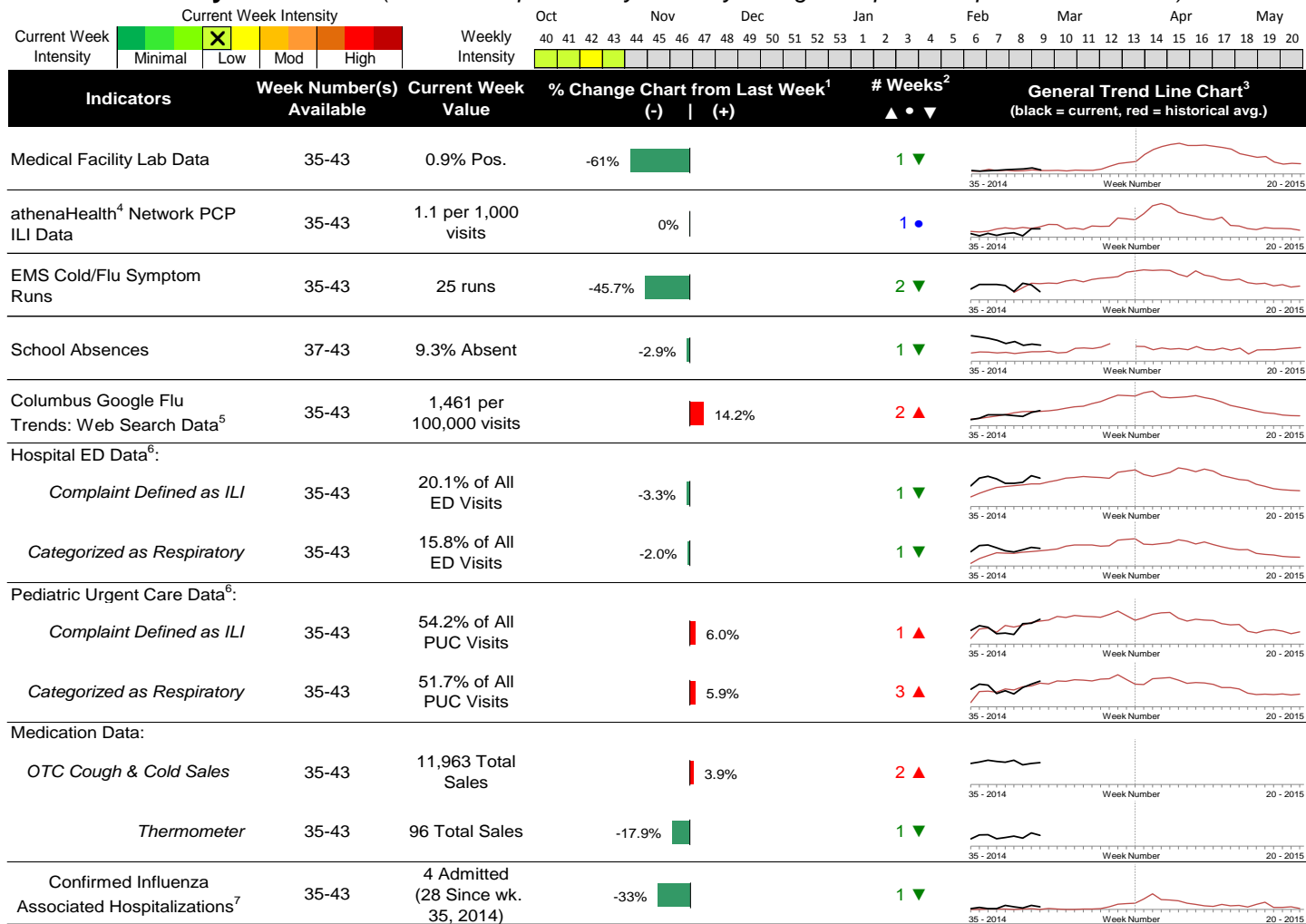


2014-2015 Columbus & Franklin County Seasonal Influenza Activity Weekly Summary (Week 43, Oct 19th – Oct. 25th, 2014)

Highlights

- In week 43 of 2014, trends for local influenza activity indicators were mixed. A number of indicators continue to be above their baseline averages for this time of year.
- Geographic activity and local intensity designation (Click [here](#) for definitions) = LOCALIZED, LOW
- Local medical facility labs reported 560 tests run with 5 (0.9%) positive results for week 43 of 2014.
- The percentage of ED visits for both influenza-like-illness (ILI) and respiratory symptoms decreased slightly compared to the previous week. The percentage of ED visits for ILI and respiratory symptoms are above their baseline averages.
- The local over-the-counter medication sale trends generally increased (increase in cough and cold, electrolyte, chest rub, adult anti-fever, and pediatric anti-fever; decrease in thermometer sales; stable throat lozenge sales) compared to last week.
- In week 43, influenza activity was low in the United States. Please [visit the CDC website for specific information](#) (National data is usually updated on Friday of each week).

Local Flu Activity Dashboard (All data are preliminary and may change as updated reports are received.)



Reportable Conditions (Cumulative Numbers as of Oct 28, 2014, 4:00 PM)	2009	2010	2011	2012	2013	2014 YTD
Pediatric Influenza Associated Death Reported by Year (based on date of death)	2	0	0	0	0	0
Influenza Associated Hospitalizations (IAH) Reported by Admission Year ⁷	523	35	268	393	302	471
IAH comparison by Season (October - May) up through current season's admission date week (week 35 - week 40) ⁷	2009-10 458	2010-11 286	2011-12 95	2012-13 511	2013-14 503	2014-15 28

¹Interpret with caution. Indicators with small numbers subject to large weekly percentage fluctuations.

²Number of weeks "▲" = Increase (>2%), "▼" = Decrease (>2%), "•" = Stable (-2% to +2%).

³Black line is current years data. Based on data availability, red line is historical average (excluding pandemic year).

⁴Data Source: athenaHealth, Inc. and their analytics and research team athenaResearch (www.athenahealth.com). Rate of ILI visits to Franklin County, OH, athenaHealth network's primary care practices/physicians using claims data.

⁵Data Source: Google Flu Trends (www.google.org/flutrends), City = Columbus, OH. See website for additional details.

⁶Franklin County, OH residents only (based on zipcode).

⁷Confirmed cases only. Based on jurisdiction equal to Franklin County or City of Columbus and admission date available in ODRS.

CDC 122-Cities Mortality Reporting System: Pneumonia and Influenza (P&I) Mortality

In week 43 of 2014, 4.0% of all Columbus deaths were attributed to pneumonia and influenza (Figure 1). Nationally, 5.5% of deaths reported were attributed to pneumonia and influenza in week 43. This national percentage is below the national epidemic threshold of 6.1% for week 43.

Influenza Morbidity and Influenza-Like Illness (ILI) Reports

In week 43, the preliminary local influenza-like-illness (ILI) visit rate (1.1 per 1,000 visits) to athenaHealth providers was similar to the previous week and is slightly lower than the baseline average for the week (Figure 1). The week 43 percentage of Emergency Department (ED) visits for ILI symptoms decreased slightly compared to the previous week (Figure 3) and is slightly higher than the historic baseline for this week. Pediatric urgent care visits for ILI symptoms increased compared to the previous week and is slightly higher than its historic baseline for the week.

Nationally, during week 43 of 2014, 1.4% of patient visits reported through the US Outpatient Influenza-like Illness Surveillance Network (ILINet), were due to influenza-like illness (ILI). The percentage is below the national baseline of 2.0%.

Laboratory Surveillance

During week 43 of 2014, reporting Franklin County sentinel medical facility laboratories tested 560 specimens, with 5 (0.9%) positive (Figure 4). The total number of tests done by local reporting labs from week 35 of 2012 through week 43 of 2014 is 3,699 with 38 (1.0%) positives (23 type A, 14 type B, 1 type unknown). Nationally in week 43 of 2014, WHO and NREVSS laboratories reported 7,449 specimens tested for influenza viruses, 320 (4.3%) of which were positive (visit the CDC website for more info). The last 3 weeks national breakdown by type and subtype from CDC is shown in Table 1 below:

Table 1: U.S. Virologic Surveillance (WHO and NREVSS participating labs)

Week	A Total	A (H1)	A 2009 H1N1	A (H3)	A (H3N2v)	A (unable to sub-type)	A (Subtyping not performed)	B Total	Total # Tested	% Positive
41	260 (62.4%)	0 (0%)	5 (1.9%)	115 (44.2%)	0 (0%)	0 (0%)	140 (53.8%)	157 (37.6%)	10193	4.09
42	373 (71.7%)	1 (0.3%)	8 (2.1%)	193 (51.7%)	0 (0%)	0 (0%)	171 (45.8%)	147 (28.3%)	9450	5.50
43	237 (74.1%)	0 (0%)	3 (1.3%)	79 (33.3%)	0 (0%)	0 (0%)	155 (65.4%)	83 (25.9%)	7449	4.29

ODH lab reported results for Ohio cases that are PCR positive for seasonal influenza. Positive results: (1) A/PdH1N1; (2) A/H3N2 (through 10/25/14)

ED and Pediatric Urgent Care Respiratory Visits

In the 43rd week of 2014, the percentage of all ED visits categorized as *respiratory* decreased slightly compared to the percentage seen the previous week and is above its historic baseline for this week (Figure 5). Pediatric urgent care visits for respiratory symptom visits increased compared to the previous week and is slightly above its historic baseline for the week.

Over-the-Counter (OTC) Medication Sales and Antiviral Prescriptions

In week 43 of 2014, trends for the local over-the-counter medication sales generally increased (increase in cough and cold, electrolyte, chest rub, adult anti-fever, and pediatric anti-fever; decrease in thermometer sales; stable throat lozenge sales) compared to last week.

Additional Influenza Activity Web Links:

Ohio Seasonal Flu Surveillance: <http://www.odh.ohio.gov/features/odhfeatures/seasflu/ohfluactivity.aspx>

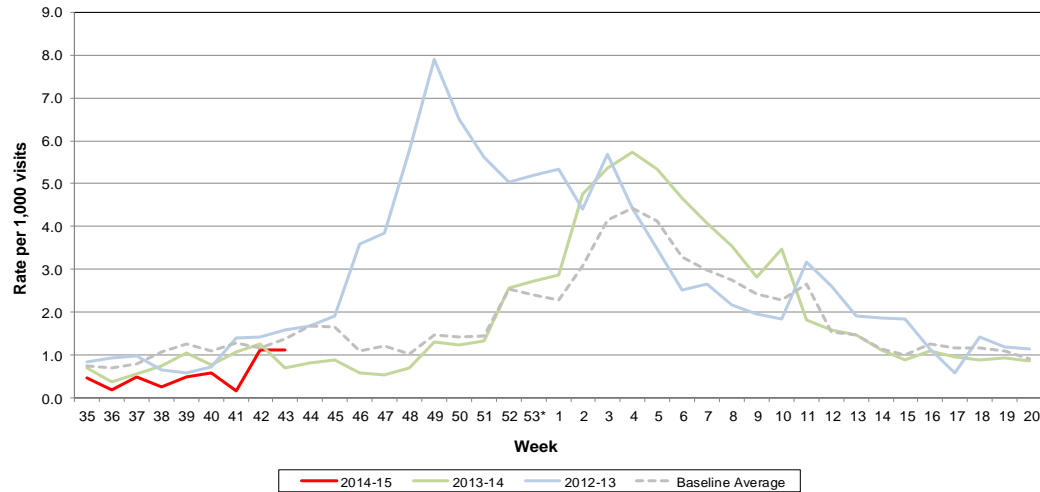
CDC National Seasonal Flu Surveillance Reports: <http://www.cdc.gov/flu/weekly/>

CDC International Flu Activity Map: <http://www.cdc.gov/flu/international/activity.htm>

World Health Organization Situation Updates: http://www.who.int/influenza/surveillance_monitoring/en/

Columbus & Franklin County Influenza Monitoring Summary – Week 43, 2014 (10/19/2014-10/25/2014)

Figure 1: athenahealth Network Primary Care Physician Influenza-Like-Illness Visit Rate†, Franklin County, OH



†Source: Claims data from athenahealth, Inc. and their analytics and research team, athenaResearch (www.athenahealth.com/blog/category/analytics-research)
Note: athenaHealth claims data are subject to filing and processing time lags. Historical data are updated when they are received.

Figure 2: Percentage of Local and National ILI Outpatient CDC Sentinel Health Care Provider Site visits, 2014-15

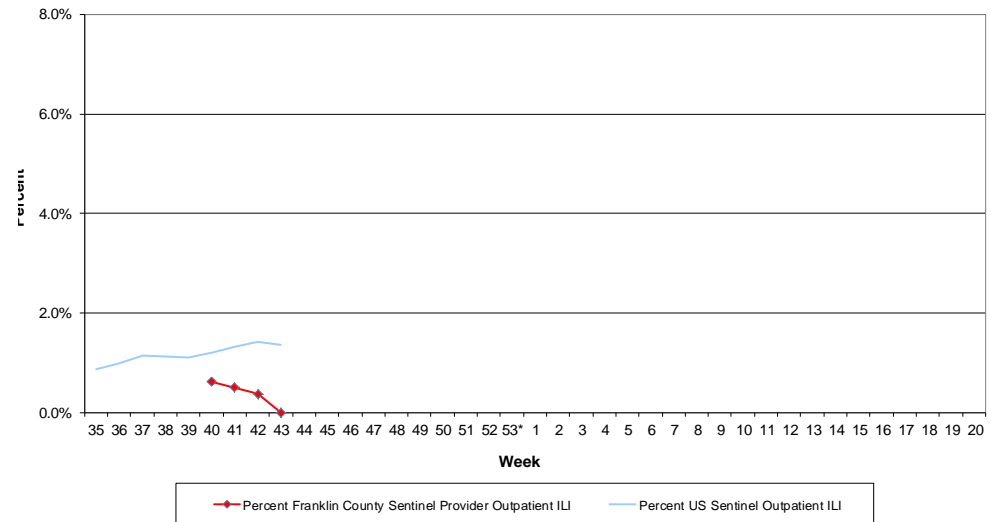
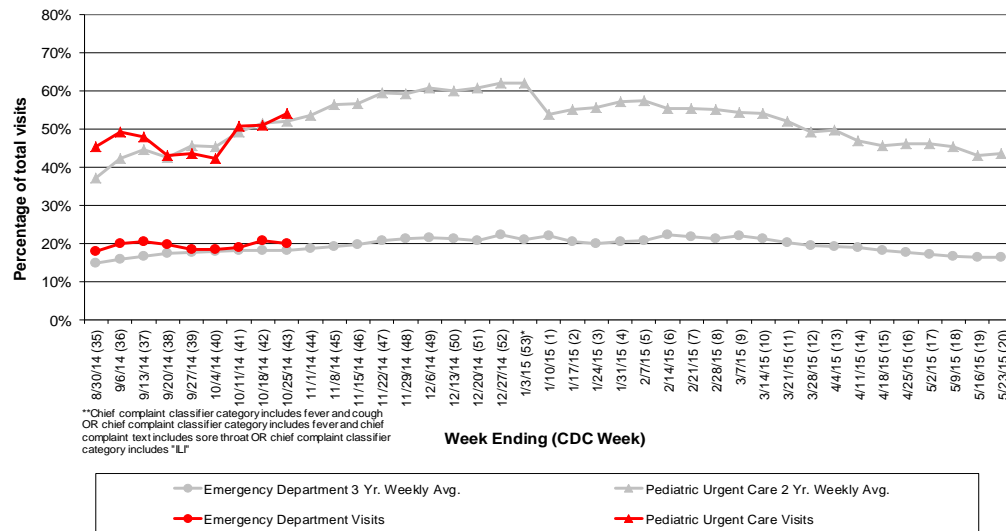
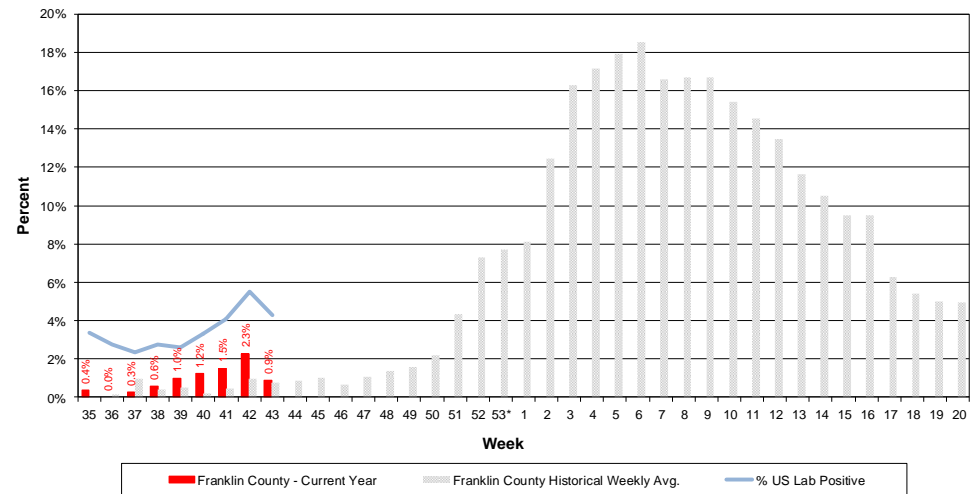


Figure 3: Franklin County Resident ILI Defined ED and Pediatric Urgent Care Visits, 2014-15, Franklin County, OH**



**Chief complaint classifier category includes fever and cough
OR chief complaint classifier category includes fever and chief
complaint text includes sore throat OR chief complaint classifier
category includes "ILI"

Figure 4: Percentage of Local Reporting and National Laboratory Positive Influenza Tests by Week, 2014-15



*Note: Based on CDC MMWR Weeks, there are 53 surveillance weeks in 2014. Baseline and previous year's week 53 data are based on the average of week 52 and week 1 numbers.

Columbus & Franklin County Influenza Monitoring Summary – Week 43, 2014 (10/19/2014-10/25/2014)

Figure 5: Franklin County Resident Respiratory ED and Pediatric Urgent Care Visits, 2014-15, Franklin County, OH

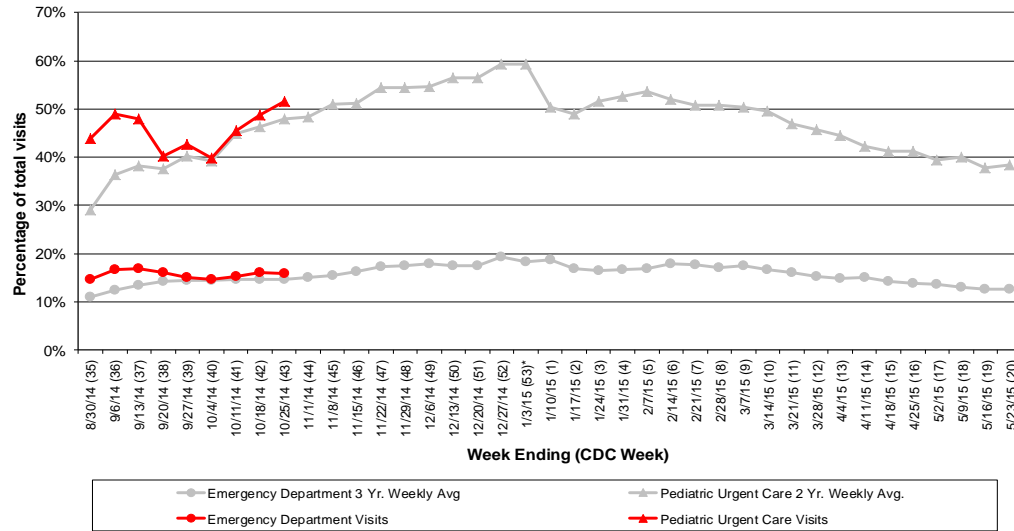


Figure 6: Selected Number of Over-the-Counter Medication Sales, 2014-15, Franklin County, OH

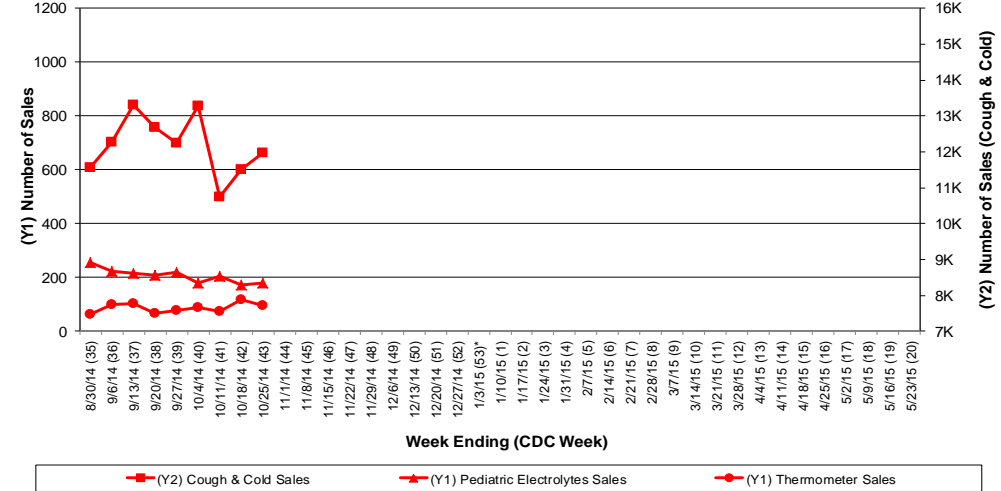
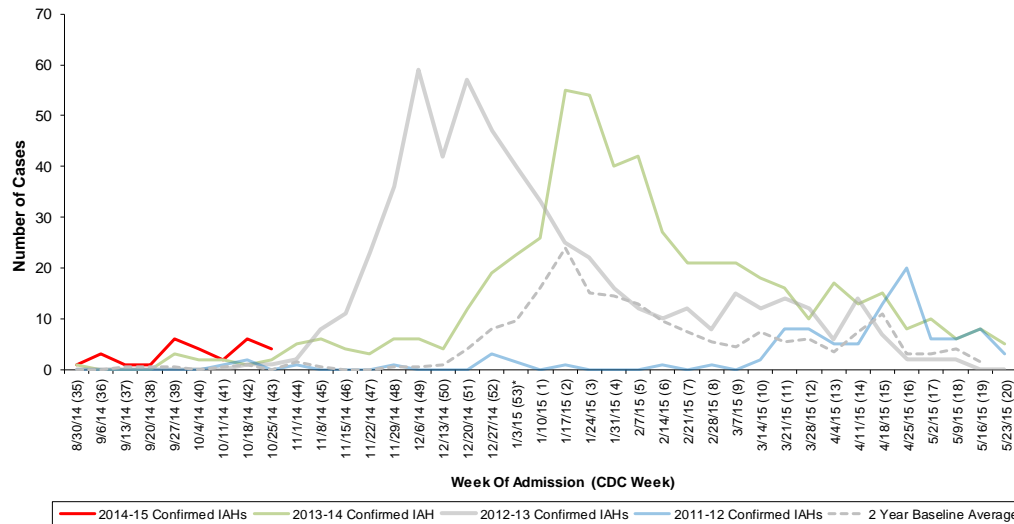
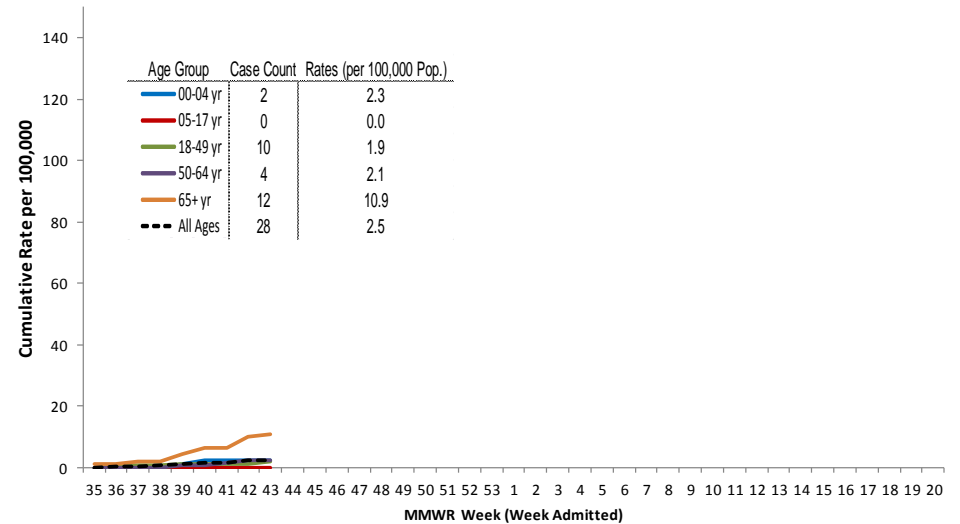


Figure 7: Franklin County Confirmed Influenza Associated Hospitalizations by Hospital Admission Week (As of 4:00 PM, 10/28/2014)



Franklin County, OH, Confirmed Influenza Hospitalization Cumulative Rates (per 100,000) by Age-Group and Admission Week, 2014-2015 Season



*Note: Based on CDC MMWR Weeks, there are 53 surveillance weeks in 2014. Baseline and previous year's week 53 data are based on the average of week 52 and week 1 numbers.